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Relevance scale ☐ ☐ ☐ ☐ ☐**1 Database Reorganization—Principles and Practice**

Gary H. Sockut, Robert P. Goldberg

December 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 4Full text available: [pdf\(1.89 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**2 Modeling the storage architectures of commercial database systems**

D. S. Batory

December 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 4Full text available: [pdf\(4.46 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Modeling the storage structures of a DBMS is a prerequisite to understanding and optimizing database performance. Previously, such modeling was very difficult because the fundamental role of conceptual-to-internal mappings in DBMS implementations went unrecognized. In this paper we present a model of physical databases, called the transformation model, that makes conceptual-to-internal mappings explicit. By exposing such mappings, we show that it is possible to model the storage ...

3 Data base directions: the next steps

John L. Berg

November 1976 **ACM SIGMOD Record**, **ACM SIGMIS Database**, Volume 8, 8 Issue 4, 2Full text available: [pdf\(9.95 MB\)](#)Additional Information: [full citation](#), [abstract](#)


What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

4 System R: relational approach to database management

M. M. Astrahan, M. W. Blasgen, D. D. Chamberlin, K. P. Eswaran, J. N. Gray, P. P. Griffiths, W. F. King, R. A. Lorie, P. R. McJones, J. W. Mehl, G. R. Putzolu, I. L. Traiger, B. W. Wade, V. Watson

June 1976 **ACM Transactions on Database Systems (TODS)**, Volume 1 Issue 2

Full text available:  [pdf\(3.18 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


System R is a database management system which provides a high level relational data interface. The system provides a high level of data independence by isolating the end user as much as possible from underlying storage structures. The system permits definition of a variety of relational views on common underlying data. Data control features are provided, including authorization, integrity assertions, triggered transactions, a logging and recovery subsystem, and facilities for maintaining ...

Keywords: authorization, data structures, database, index structures, locking, nonprocedural language, recovery, relational model

5 The Logical Record Access Approach to Database Design

Toby J. Teorey, James P. Fry

June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2


Full text available:  [pdf\(2.81 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Virtual memory algorithms

Alok Aggarwal, Ashok Chandra

January 1988 **Proceedings of the twentieth annual ACM symposium on Theory of computing**

Full text available:  [pdf\(1.12 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 The Alpine file system

M. R. Brown, K. N. Kolling, E. A. Taft

November 1985 **ACM Transactions on Computer Systems (TOCS)**, Volume 3 Issue 4

Full text available:  [pdf\(2.95 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Alpine is a file system that supports atomic transactions and is designed to operate as a service on a computer network. Alpine's primary purpose is to store files that represent databases. An important secondary goal is to store ordinary files representing documents, program modules, and the like. Unlike other file servers described in the literature, Alpine uses a log-based technique to implement atomic file update. Another unusual aspect of Alpine is that it performs all commu ...

8 Text Mining Biomedical Literature for Discovering Gene-to-Gene Relationships: A Comparative Study of Algorithms

Ying Liu, Shamkant B. Navathe, Jorge Civera, Venu Dasigi, Ashwin Ram, Brian J. Ciliax, Ray Dingledine

January 2005 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 2 Issue 1

Full text available:  [pdf\(1.81 MB\)](#) 

Additional Information: [full citation](#), [abstract](#)

[Publisher Site](#)

Partitioning closely related genes into clusters has become an important element of practically all statistical analyses of microarray data. A number of computer algorithms have been developed for this task. Although these algorithms have demonstrated their usefulness for gene clustering, some basic problems remain. This paper describes our work on extracting functional keywords from MEDLINE for a set of genes that are isolated for further study from microarray experiments based on their difference ...

Keywords: Index Terms- Bond energy algorithm, microarray, MEDLINE, text analysis, cluster analysis, gene function.

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